7

Appl. No. 10/765,369 Reply to Examiner's Action dated 7/26/2005

N THE CLAIMS:

1. (Original) For use with a condenser unit of an air conditioner, a pre-cooling system, comprising:

a housing coupleable to a top of a condenser of an air conditioner, said condenser having a substantially-vertical exhaust;

a valve mounted in said housing and coupleable to a water source, said valve capable of operating independently of electrical power; and

a vane coupled to said valve and positionable in said substantially-vertical exhaust, said vane having an aerodynamically-shaped cross section useable to operate said valve.

- 2. (Original) The pre-cooling system as recited in Claim 1 wherein said aerodynamically-shaped cross section has a leading edge and a trailing edge, and wherein said leading edge is substantially thicker than said trailing edge.
- 3. (Original) The pre-cooling system as recited in Claim 2 wherein said aerodynamically-shaped cross section has an upper surface and an undersurface and wherein said upper surface is longer than said undersurface.
- 4. (Original) The pre-cooling system as recited in Claim 1 wherein said vane has a concave undersurface.
- 5. (Original) The pre-cooling system as recited in Claim 1 further comprising a water supply tube coupled to said valve and coupleable to said water source.
 - 6. (Original) The pre-cooling system as recited in Claim 1 further comprising a spray

20

Reply to Examiner's Action dated 7/26/2005

nozzle in fluid communication with said valve,

- 7. (Original) The pre-cooling system as recited in Claim 1 further comprising spray tubing interposed said valve and said spray nozzle.
- 8. (Original) The pre-cooling system as recited in Claim 1 further comprising a filter coupled to said valve and coupleable to said water source.
- 9. (Original) The pre-cooling system as recited in Claim 8 wherein said filter comprises hexametaphosphate.
- 10. (Original) A method of manufacturing a pre-cooling system for use with a condenser unit of an air conditioner, said method comprising:

providing a housing coupleable to a top of a condenser of an air conditioner, said condenser having a substantially-vertical exhaust;

mounting a valve in said housing, said valve coupleable to a water source and capable of operating independently of electrical power; and

coupling a vane to said valve, said vane having an aerodynamically-shaped cross section and positionable in said substantially-vertical exhaust, said aerodynamically-shaped cross section useable to operate said valve.

11. (Original) The method as recited in Claim 10 wherein coupling a vane includes coupling a vane wherein said aerodynamically-shaped cross section has a leading edge and a trailing edge, and wherein said leading edge is substantially thicker than said trailing edge.

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P. 5 NO. 2515

OCT. 10. 2005 3:16PM Appl. No. 10/765,369

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Reply to Examiner's Action dated 7/26/2005

- 12. (Original) The method as recited in Claim 11 wherein coupling a vane includes coupling a vane wherein a straight line drawn between said leading edge and said trailing edge defines a chord of said aerodynamically-shaped cross section, and wherein said chord and a direction of said substantially-vertical exhaust define an angle of attack of said vane.
- 13. (Original) The method as recited in Claim 10 wherein coupling a vane includes coupling a vane having a concave undersurface.
- 14. (Original) The method as recited in Claim 10 further comprising coupling a water supply tube to said valve, said water supply tube coupleable to said water source.
- 15. (Original) The method as recited in Claim 10 further comprising coupling a spray nozzle in fluid communication with said valve.
- 16. (Original) The method as recited in Claim 10 further comprising interposing spray tubing between said valve and said spray nozzle.
- 17. (Original) The method as recited in Claim 10 further comprising coupling a filter to said valve, said filer coupleable to said water source.
- 18. (Original) The method as recited in Claim 17 wherein interposing a filter includes interposing a filter comprising hexametaphosphate.